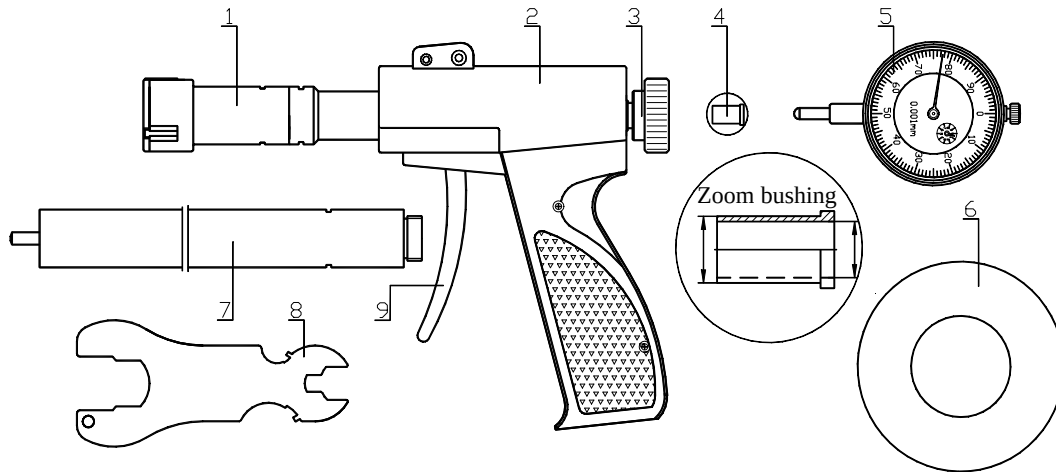


MeasumaX^{MX} Pistol-grip Three-point Bore Gages

Operation Manual



1. Measuring head 2. Pistol body 3. Locking nut 4. Bushing
5. Dial indicator(Supplied by user) 6. Setting ring 7. Extension rod 8. Spanner 9. Grip

1. Use

Measurement can be taken closer to the bottom of the blind hole, and can be taken into a deep hole with an extension. Convenient for right and left hand use.

2. Installation

Insert the dial indicator into the hole of the locking nut.

(If the clamped part of the dial indicator is $\phi 8\text{mm}$, insert the bush into the hole of the locking nut, then insert the dial indicator; If the clamped part is $3/8"$ ($\phi 9.525\text{mm}$), insert the dial indicator into the hole directly.)

Make sure the trigger is in the release position when installing the dial indicator. After the needle of the dial indicator moves slightly, rotate locking nut to lock the indicator.

3. Zero setting

Setting zero before measuring.

Clean the measuring jaws and hole of the setting ring with soft cloth. Pull the trigger and screw the measuring head into the hole, loosen the grip to make the jaws contact with bore of the setting ring. Set zero and check with the ring gauge again. When the display of the indicator is the same, adjust origin data to make reading coincide with number of the setting ring.

4. Extension rod installation

Install extension rod when measuring a deep hole.

Uninstall the measuring head with a spanner. Again when unscrewing the head ensure that the trigger has been pulled fully home to relieve the pressure of the head. Fix the extension rod between the measuring head and the pistol, fastening them, and reset zero according to the process 3.

Note: When install and uninstall the pistol, a spanner must be used to protect it from damaging.

5. Precaution

1. Do not apply excessive force when measuring.
2. Do not disassemble the instrument.
3. Keep the instrument clean and dry.
4. Return into the packaging box after apply anti-rust oil if not used for a long time.

* Dial indicator with the range of 12.7mm is suggested to install with the pistol-grip three-point internal micrometers for use.